

Low Temperature Effusion Cell – LT Series

Engines for Thin Film Innovation

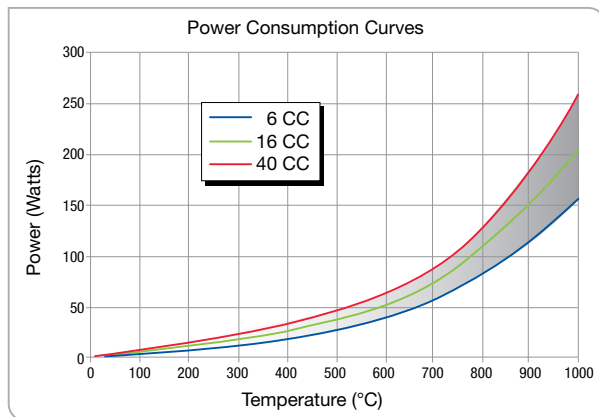


Description

SVT Associates' LT Series is the definitive choice for high vapor pressure materials. The source is designed for temperature stability at low temperatures and utilizes a hot-lip style filament to prevent condensation due to radiative heat loss. Models are available for mounting on a 2.75" or larger CF flange. All effusion cells are thoroughly tested and characterized before shipment.

Features

- Stable Fluxes for High Vapor Pressure Materials
- Designed for Optimal Performance at Lower Temperatures
- Hot-Lip Style Filament Design to Prevent Condensation
- Wide Range of Sizes Available

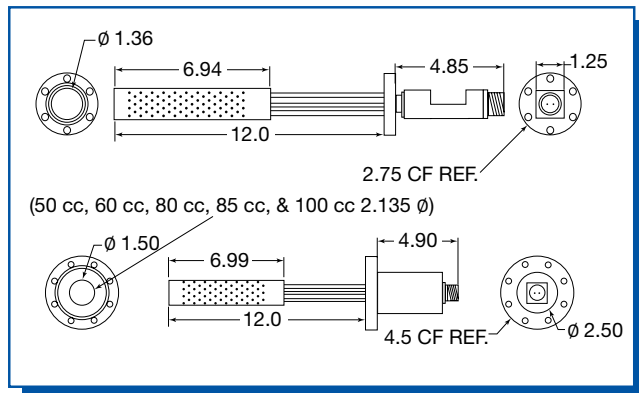


Typical power consumption of 6 cc – 40 cc Low Temperature Cells.

Specifications

Temperature Range	0 °C – 1,000 °C
Power Requirement	600 W or 1kW
Temperature Stability	+/- 0.1 °C
Temperature Reproducibility	+/- 0.1 °C
Thermocouple Type	Type K
Crucible Size*	16 cc, 20 cc, 22 cc, 40 cc, 50 cc, 60 cc, 80 cc, and 100 cc. Crucibles have tapered wall for best uniformity.
Standard Length*	12.0"
Materials*	PBN and Aluminum Oxide
Mounting Flange	2.75", 4.50", or 6.00" OD – CF
Electrical Connectors	Filament: Amphenol Circular T/C: Omega Submini

*Other sizes, materials, and lengths are available, contact SVT Associates for details.



Schematic drawing of Low Temperature Effusion Cells. Dimensions are given in Inches.

SVTA-LT-(Crucible Size)-(Flange Size)

Flange Size	2.75"	4.50"	6.00"
Crucible Size	16 cc	16 cc	16 cc
	20 cc	20 cc	20 cc
	22 cc	22 cc	22 cc
	40 cc	40 cc	40 cc
		50 cc	50 cc
		60 cc	60 cc
		80 cc	80 cc
		85 cc	85 cc
		100 cc	100 cc

